

Title (en)
POLARITY OF HALL MAGNET TO DETECT MISLOADED CARTRIDGE

Title (de)
POLARITÄT EINES HALL-MAGNETS ZUR ERKENNUNG FALSCH GELADENER KARTUSCHEN

Title (fr)
POLARITÉ D'UN AIMANT À EFFET HALL POUR DÉTECTER UNE CARTOUCHE MAL CHARGÉE

Publication
EP 2992841 A3 20160330 (EN)

Application
EP 15184128 A 20150907

Priority

- US 201414479110 A 20140905
- US 201414479119 A 20140905
- US 201414479103 A 20140905
- US 201414479098 A 20140905
- US 201414479115 A 20140905
- US 201414478908 A 20140905
- US 201414478895 A 20140905
- US 201414479108 A 20140905

Abstract (en)
[origin: EP2992839A2] A staple cartridge for use with a surgical stapler and surgical stapling systems are disclosed. The staple cartridge comprises a cartridge body having a tissue-contacting surface. One or more light emitting diodes (LEDs) are positioned at the edges of the tissue-contacting surface. A plurality of staple drivers is located within the cartridge body each supporting a staple.

IPC 8 full level
A61B 17/072 (2006.01); **A61B 90/98** (2016.01); **G06F 1/3203** (2019.01)

CPC (source: CN EP US)
A61B 5/6847 (2013.01 - EP US); **A61B 17/00** (2013.01 - US); **A61B 17/0644** (2013.01 - EP US); **A61B 17/068** (2013.01 - CN US); **A61B 17/072** (2013.01 - US); **A61B 17/07207** (2013.01 - CN EP US); **A61B 17/07292** (2013.01 - CN EP US); **A61B 17/105** (2013.01 - CN US); **A61B 17/1155** (2013.01 - CN EP US); **A61B 17/32** (2013.01 - US); **A61B 90/06** (2016.02 - US); **A61B 90/70** (2016.02 - EP US); **A61B 90/92** (2016.02 - CN EP US); **A61B 90/98** (2016.02 - CN EP US); **G01R 33/072** (2013.01 - US); **G06F 1/266** (2013.01 - EP US); **G06F 1/28** (2013.01 - EP US); **G06F 1/30** (2013.01 - EP US); **G06F 1/305** (2013.01 - EP US); **G06F 1/3215** (2013.01 - EP US); **G06F 1/3287** (2013.01 - EP US); **H02H 1/06** (2013.01 - EP US); **H02H 3/06** (2013.01 - EP US); **H02H 3/087** (2013.01 - EP US); **H02H 3/18** (2013.01 - EP US); **H02H 3/202** (2013.01 - EP US); **H02H 3/207** (2013.01 - EP US); **H02H 3/243** (2013.01 - EP US); **H02H 7/20** (2013.01 - EP US); **H02H 9/02** (2013.01 - CN); **H02H 9/043** (2013.01 - CN); **H02H 11/002** (2013.01 - EP US); **H02J 1/001** (2020.01 - EP); **H02J 1/10** (2013.01 - EP US); **H02J 7/0068** (2013.01 - EP US); **A61B 5/067** (2013.01 - EP US); **A61B 5/1076** (2013.01 - EP US); **A61B 5/6885** (2013.01 - EP US); **A61B 8/12** (2013.01 - EP US); **A61B 8/4483** (2013.01 - EP US); **A61B 90/70** (2016.02 - CN); **A61B 90/90** (2016.02 - EP US); **A61B 90/94** (2016.02 - EP US); **A61B 90/96** (2016.02 - EP US); **A61B 2017/00017** (2013.01 - CN EP US); **A61B 2017/00022** (2013.01 - CN EP US); **A61B 2017/00026** (2013.01 - CN EP US); **A61B 2017/00039** (2013.01 - EP US); **A61B 2017/00061** (2013.01 - EP US); **A61B 2017/00066** (2013.01 - EP US); **A61B 2017/00075** (2013.01 - CN EP US); **A61B 2017/00106** (2013.01 - CN EP US); **A61B 2017/00115** (2013.01 - EP US); **A61B 2017/00119** (2013.01 - EP US); **A61B 2017/00123** (2013.01 - CN EP US); **A61B 2017/00199** (2013.01 - CN EP US); **A61B 2017/00393** (2013.01 - CN EP US); **A61B 2017/00398** (2013.01 - CN EP US); **A61B 2017/0046** (2013.01 - CN EP US); **A61B 2017/00477** (2013.01 - CN EP US); **A61B 2017/00725** (2013.01 - CN EP US); **A61B 2017/00734** (2013.01 - CN EP US); **A61B 2017/00876** (2013.01 - CN EP US); **A61B 2017/07214** (2013.01 - CN EP US); **A61B 2017/07257** (2013.01 - EP US); **A61B 2017/07271** (2013.01 - CN EP US); **A61B 2017/07285** (2013.01 - CN EP US); **A61B 2017/2927** (2013.01 - CN EP US); **A61B 2018/00648** (2013.01 - US); **A61B 2090/037** (2016.02 - EP); **A61B 2090/061** (2016.02 - CN EP US); **A61B 2090/064** (2016.02 - CN EP US); **A61B 2090/065** (2016.02 - EP US); **A61B 2090/0803** (2016.02 - CN EP US); **A61B 2090/0806** (2016.02 - EP US); **A61B 2090/0807** (2016.02 - CN EP US); **A61B 2090/0808** (2016.02 - EP US); **A61B 2090/081** (2016.02 - EP US); **A61B 2090/0811** (2016.02 - CN EP US); **A61B 2090/0814** (2016.02 - CN EP US); **A61B 2090/0818** (2016.02 - EP US); **A61B 2090/304** (2016.02 - EP US); **A61B 2090/309** (2016.02 - EP US); **A61B 2090/702** (2016.02 - CN EP US); **A61B 2505/05** (2013.01 - EP US); **A61B 2562/0223** (2013.01 - EP US); **A61B 2562/0247** (2013.01 - EP US); **A61B 2562/0257** (2013.01 - EP US); **A61B 2562/0261** (2013.01 - EP US); **A61B 2562/029** (2013.01 - EP US); **A61B 2562/043** (2013.01 - EP US); **A61B 2562/06** (2013.01 - US); **A61B 2562/223** (2013.01 - US); **H02H 3/02** (2013.01 - EP US); **H02H 3/04** (2013.01 - CN EP US); **H02J 2310/23** (2020.01 - EP); **Y02D 10/00** (2018.01 - EP)

Citation (search report)

- [XDI] US 2011155781 A1 20110630 - SWENSGARD BRETT E [US], et al
- [A] US 5693042 A 19971202 - BOIARSKI ANTHONY A [US], et al
- [A] US 2012228358 A1 20120913 - ZEMLOK MICHAEL A [US], et al
- [A] EP 2253280 A1 20101124 - TYCO HEALTHCARE [US]
- [A] EP 2044890 A1 20090408 - TYCO HEALTHCARE [US]
- [A] US 2011174861 A1 20110721 - SHELTON IV FREDERICK E [US], et al

Cited by
EP3795093A1; EP3162297A1; EP3417795A1; CN110785129A; EP3364505A1; US10251649B2; EP3417809A1; EP3777714A1; WO2018234900A1; WO2017074781A1; WO2021053440A1; CN106580383A; JP2020501797A; US11185331B2; US11801055B2; US10595871B2; US11376007B2; CN107361807A; EP3243449A3; EP3777715A1; WO2018234893A1; WO2018116007A3

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BR 112017004370 B1 20211116; CN 106999184 A 20170801; CN 106999184 B 20201127; CN 107106167 A 20170829;
CN 107106167 B 20200103; CN 108289665 A 20180717; CN 108289665 B 20211116; EP 2992840 A2 20160309; EP 2992840 A3 20160420;
EP 2992841 A2 20160309; EP 2992841 A3 20160330; EP 2992841 B1 20210106; EP 2992841 B8 20210317; EP 2992842 A1 20160309;
EP 2992842 B1 20190814; EP 2997904 A2 20160323; EP 2997904 A3 20160511; EP 2997904 B1 20180808; EP 3000409 A2 20160330;
EP 3000409 A3 20160629; EP 3000409 B1 20181205; EP 3001279 A2 20160330; EP 3001279 A3 20160629; EP 3001279 B1 20230614;
EP 3001279 C0 20230614; EP 3011909 A2 20160427; EP 3011909 A3 20160727; EP 3011909 B1 20181024; EP 3403594 A1 20181121;
EP 3403594 B1 20200101; EP 3501410 A2 20190626; EP 3501410 A3 20191120; JP 2017530838 A 20171019; JP 2017530839 A 20171019;
JP 2017530840 A 20171019; JP 2017530841 A 20171019; JP 2017531535 A 20171026; JP 2017532169 A 20171102; JP 6619010 B2 20191211;
JP 6657221 B2 20200304; JP 6661638 B2 20200311; JP 6668352 B2 20200318; JP 6679592 B2 20200415; JP 6749910 B2 20200902;
US 10016199 B2 20180710; US 10111679 B2 20181030; US 10135242 B2 20181120; US 10905423 B2 20210202; US 11076854 B2 20210803;
US 11653918 B2 20230523; US 2016066909 A1 20160310; US 2016066910 A1 20160310; US 2016066911 A1 20160310;
US 2016066912 A1 20160310; US 2016066913 A1 20160310; US 2016066914 A1 20160310; US 2016066915 A1 20160310;
US 2016066916 A1 20160310; US 2019015102 A1 20190117; US 2019125345 A1 20190502; US 2020085431 A1 20200319;
US 2020093488 A1 20200326; US 9724094 B2 20170808; US 9737301 B2 20170822; US 9757128 B2 20170912; US 9788836 B2 20171017;
WO 2016036650 A2 20160310; WO 2016036650 A3 20160728; WO 2016036651 A2 20160310; WO 2016036651 A3 20160602;
WO 2016036653 A2 20160310; WO 2016036653 A3 20160428; WO 2016036656 A1 20160310; WO 2016036811 A1 20160310;
WO 2016036818 A2 20160310; WO 2016036818 A3 20160804; WO 2016036821 A1 20160310; WO 2016036825 A2 20160310;
WO 2016036825 A3 20160506

DOCDB simple family (application)

EP 15184106 A 20150907; BR 112017004370 A 20150902; CN 201580060463 A 20150902; CN 201580060472 A 20150902;
CN 201580060520 A 20150902; EP 15184113 A 20150907; EP 15184120 A 20150907; EP 15184124 A 20150907; EP 15184125 A 20150907;
EP 15184128 A 20150907; EP 15184130 A 20150907; EP 15184134 A 20150907; EP 18178087 A 20150907; EP 18210242 A 20150907;
JP 2017531967 A 20150831; JP 2017531969 A 20150831; JP 2017531970 A 20150831; JP 2017531973 A 20150902;
JP 2017531974 A 20150902; JP 2017531975 A 20150902; US 201414478895 A 20140905; US 201414478908 A 20140905;
US 201414479098 A 20140905; US 201414479103 A 20140905; US 201414479108 A 20140905; US 201414479110 A 20140905;
US 201414479115 A 20140905; US 201414479119 A 20140905; US 2015047698 W 20150831; US 2015047699 W 20150831;
US 2015047705 W 20150831; US 2015047713 W 20150831; US 2015048076 W 20150902; US 2015048086 W 20150902;
US 2015048090 W 20150902; US 2015048095 W 20150902; US 201816030355 A 20180709; US 201816170576 A 20181025;
US 201916580493 A 20190924; US 201916587848 A 20190930